AUTHOR INDEX

(D) Denotes Demonstration (T) Title only

AGNEW J.E., CLARKE S.W., LOPEZ-VIDRIERO M.T., PAVIA D. & SUTTON P.P. Tracheobronchial clearance in chronic bronchitis. (D) 12*P*

AGNEW J.E., CLARKE S.W., FRANCIS R.A., PAVIA D. & SUTTON P.P. Pulmonary deposition and retention of a Tc-99m aerosol suitable for clinical ventilation imaging. (D) 13*P*

AICKIN C. Claire & BRADING Alison F. Towards an estimate of chloride permeability in the smooth muscle of guinea-pig vas deferens. 179

ALLEN D.G., EISNER D.A., LAB M.J. & ORCHARD C.H. Oscillations of intracellular [Ca^{2+}] in ferret ventricular muscle. 64*P*

ALLISON D.J., GOATCHER A., HUGHES J.M.B. & TRIPATHI A. Effect of the respiratory stimulant almitrine on the pulmonary circulation in dogs. 43*P*

ALMERS W., STANFIELD P.R. & STÜHMER W. Lateral distribution of sodium and potassium channels in frog skeletal muscle: measurements with a patch-clamp technique. 261

AMBACHE N., ANADÓN A., BURKILL Linda, MARTINEZ-LARRAÑAGA Maria-Rosa, SKINNER Susan & SMITH J.A. Further study of active substances in Auerbach's plexus. 54*P*

ANADÓN A. *see* AMBACHE N., ANADÓN A., BURKILL Linda, MARTINEZ-LARRAÑAGA Maria-Rosa, SKINNER Susan & SMITH J.A. Further study of active substances in Auerbach's plexus. 54*P*

ANDERSON D.J. & HECTOR M.P. The effect of anaesthesia of various intra-oral afferents on reflex parotid secretion in man. (D) 15*P*

ANDERSON W.P., BARTLEY P.J., CASLEY D.J. & SELIG S.E. Comparison of aspirin and indomethacin pre-treatments on the responses to reduced renal artery pressure in conscious dogs. 101

ANDREWS P.L.R. & LAWES I.N.C. An averaging technique applied to the measurement of intragastric pressure in the ferret. (D) 2*P*

ANGEL A. & MASON S.T. Brain noradrenaline and anaesthesia: further evidence for a role of beta-receptors in the rat. 60*P*

ARBUTHNOTT G.W., WALKER R.H., WHALE D. & WRIGHT A.K. Further evidence for a pallido-striatal pathway in rat brain. 33*P*

ASHMORE J.F. Spontaneous membrane potential oscillations in frog saccular hair cells. 24*P*

ASHWOOD T.J., LANCASTER B. & WHEAL H.V. Bursting activity in the kainic acid (KA) lesioned rat hippocampus is associated with a reduction in GABA-mediated inhibition. 59*P*

ATTENBURROW V.D., FULLER B.J., HOBBS K.E.F., LEWIN J. & WOODS R.J. Metabolic and ultra-structural confirmation of rat hepatocyte proliferation outside the liver. (D) 10*P*

ATTWELL D., WERBLIN F.S. & WILSON M. The effect of caesium on the electrical properties of rods from the tiger salamander retina. 25*P*

ATTWELL David, WERBLIN Frank S., WILSON Martin & WU Samuel M. A sign-reversing pathway from rods to double and single cones in the retina of the tiger salamander. 313

BAGNALL J., DASHWOOD M. & HUGHES T.G. Automatic quantification of autoradiographically localized receptors using the Leitz MPV Compact Photometer system. (D) 15*P*

BAKER P.F. & CARRUTHERS A. Insulin regulation of sugar transport in giant muscle fibres of the barnacle. 397

BAKHLE Y.S. & CHELLIAH R. Metabolism of adenine nucleotides and adenosine in the pulmonary circulation of isolated lungs from man and other animals. 42*P*

BARER Gwenda R., BEE Denise & WACH Richard A. Contribution of polycythaemia to pulmonary hypertension in simulated high altitude in rats. 27

BARNES P.R.J. & DYBALL R.E.J. The mouse hypothalamo-neurohypophysial system: an alternative model for the study of neurosecretion. (D) 16*P*

BARRADAS M.A., CRAFT I.L., DANDONA P. & JEREMY J.Y. Does the human placenta produce prostacyclin? 77*P*

BARTHOLOMEW T.C., BILLING B.H. & CLELAND D.P. Hepatic clearance of sulphated and non-sulphated bile acids in cholestatic rat. (D) (T) 17*P*

BARTLETT D., ST. JOHN WALTER & SINCLAIR J.D. Respiration in rats with chronic lesions in the caudal region of the nucleus of the tractus solitarius. 37*P*

BARTLEY P.J. *see* ANDERSON W.P., BARTLEY P.J., CASLEY D.J. & SELIG S.E. Comparison of aspirin and indomethacin pre-treatments on the responses to reduced renal artery pressure in conscious dogs. 101

BEE Denise *see* BARER Gwenda R., BEE Denise & WACH Richard A. Contribution of polycythaemia to pulmonary hypertension in simulated high altitude in rats. 27

BEVAN Stuart & STEINBACH Joe Henry Denervation increases the degradation rate of acetylcholine receptors at end-plates *in vivo* and *in vitro*. 159

BILLING B.H. *see* BARTHOLOMEW T.C., BILLING B.H. & CLELAND D.P. Hepatic clearance of sulphated and non-sulphated bile acids in cholestatic rat. (D) (T) 17*P*

BISHOP J.H.V. & GREEN R. Glucose handling by distal portions of the nephron during pregnancy in the rat. 131

BORISON Herbert L., BORISON Rosaline & SADIG Taha Open-loop comparison of carotid sinus reflex respiratory and circulatory effects in cats. 113

BORISON Rosaline *see* BORISON Herbert L., BORISON Rosaline & SADIG Taha Open-loop comparison of carotid sinus reflex respiratory and circulatory effects in cats. 113

BOSS A.M., KINGSTONE D., MARSHALL A.W., MORGAN M.Y. & SHERLOCK S. Ethanol elimination: influence of sex and the menstrual cycle. 76*P*

BOYD R.D.H., CANNING Jane F., STACEY T.E., WARD R.H.T. & WEEDON A.P. Volumes of distribution of sodium and albumin in the sheep placenta. 13

BRADING Alison F. *see* AICKIN C. Claire & BRADING Alison F. Towards an estimate of chloride permeability in the smooth muscle of guinea-pig vas deferens. 179

BRADLEY Amanda A., DONOGHUE S., GILBEY M.P., JORDAN D. & SPYER K.M. Intracellular studies on afferent transmission through the nucleus tractus solitarius of the cat. (D) 4*P*

BRADLEY D.J. & RICHARDS C.D. Temperature effects on local anaesthetic action and membrane-buffer partition coefficients. (D) 5*P*

BRADLEY D.J. Colour fringes in a vibrating tuning fork (D) (T) 6*P*

BURKILL Linda *see* AMBACHE N., ANADÓN A., BURKILL Linda, MARTINEZ-LARRAÑAGA Maria-Rosa, SKINNER Susan & SMITH J.A. Further study of active substances in Auerbach's plexus. 54*P*

BYLUND-FELLENIUS A.C., IDSTRÖM J.P., RENNIE M.J. & SCHERSTÉN T. Common effects of insulin, hypoxia and contractile activity on transport of 2-deoxyglucose into perfused rat skeletal muscle. 18*P*

CALVERT D.T., KNIGHT C.H. & MALTZ E. Consequences of urine recycling to the lactating mouse and her young. 74*P*

CANNING Jane F. *see* BOYD R.D.H., CANNING Jane F., STACEY T.E., WARD R.H.T. & WEEDON A.P. Volumes of distribution of sodium and albumin in the sheep placenta. 13

CARRUTHERS A. Sugar transport in giant barnacle muscle fibres. 377

CARRUTHERS A. *see* BAKER P.F. & CARRUTHERS A. Insulin regulation of sugar transport in giant muscle fibres of the barnacle. 397

CASLEY D.J. *see* ANDERSON W.P., BARTLEY P.J., CASLEY D.J. & SELIG S.E. Comparison of aspirin and indomethacin pre-treatments on the responses to reduced renal artery pressure in conscious dogs. 101

CHAKRABARTI M.K., COBBE S.M., LOH L. & POOLE-WILSON P.A. Measurement of pulmonary venous and arterial pH oscillations in dogs using catheter tip pH electrodes. 61

CHELLIAH R. *see* BAKHLE Y.S. & CHELLIAH R. Metabolism of adenine nucleotides and adenosine in the pulmonary circulation of isolated lungs from man and other animals. 42*P*

CHESNUT Thomas J. Two-component desensitization at the neuromuscular junction of the frog. 229

CIGADA C., CORAY A. & MCGUIGAN J.A.S. A multichannel tap with no grease. (D) 1*P*

CLARK R.G., JONES P.M. & ROBINSON I.C.A.F. Vasopressin clearance from cerebrospinal fluid in Brattleboro rats. 81*P*

CLARKE J.D.W., ROBERTS A. & SOFFE S.R. Candidate reciprocal inhibitory interneurones in the spinal cord of *Xenopus* embryos. 61*P*

CLARKE S.W. *see* AGNEW J.E., CLARKE S.W., LOPEZ-VIDRIERO M.T., PAVIA D. & SUTTON P.P. Tracheobronchial clearance in chronic bronchitis. (D) 12*P*

CLARKE S.W. *see* AGNEW J.E., CLARKE S.W., FRANCIS R.A., PAVIA D. & SUTTON P.P. Pulmonary deposition and retention of a Tc-99m aerosol suitable for clinical ventilation imaging. (D) 13*P*

CLARKE S.W. & LOPEZ-VIDRIERO M.T. The effect of a beta 2 agonist on the activity of human bronchial cilia *in vitro*. 40*P*

CLEARY J., GREENSTONE M., LEE S.M., MATHIAS C.J. & TALIADOROS M.D. Is renin release in man mediated by $beta_1$ or $beta_2$ adrenoreceptors? 79*P*

CLELAND D.P. *see* BARTHOLOMEW T.C., BILLING B.H. & CLELAND D.P. Hepatic clearance of sulphated and non-sulphated bile acids in cholestatic rat. (D) (T) 17*P*

CLERC N. & MEI N. Vagal mechanoreceptors located in the lower oesophageal sphincter of the cat. 487

COBBE S.M. *see* CHAKRABARTI M.K., COBBE S.M., LOH L. & POOLE-WILSON P.A. Measurement of pulmonary venous and arterial pH oscillations in dogs using catheter tip pH electrodes. 61

COHEN I.S. & VAN DER KLOOT W. Effects of low temperature and terminal membrane potential on quantal size at frog neuromuscular junction. 335

CORAY A. *see* CIGADA C., CORAY A. & MCGUIGAN J.A.S. A multichannel tap with no grease. (D) 1*P*

CORAY A. & MCGUIGAN J.A.S. pH_i at rest and during Na withdrawal contractures in ferret ventricle. 66*P*

CRAFT I.L. *see* BARRADAS M.A., CRAFT I.L., DANDONA P. & JEREMY J.Y. Does the human placenta produce prostacyclin? 77*P*

CUNNINGHAM JO R. & NEAL M.J. Effect of γ-aminobutyric acid agonists, glycine, taurine and neuropeptides on acetylcholine release from the rabbit retina. 563

CURTIN NANCY A. Intracellular pH and buffer power of skeletal muscle of the frog. 20*P*

DALE N. & ROBERTS A. The effects of excitatory amino acid antagonists on swimming in *Xenopus* embryos. 62*P*

DANDONA P. *see* BARRADAS M.A., CRAFT I.L., DANDONA P. & JEREMY J.Y. Does the human placenta produce prostacyclin? 77*P*

DANIEL E.E., HELMY-ELKHOLY A., JAGER L.P. & KANNAN M.S. Neither a purine nor VIP is the mediator of inhibitory nerves of opossum oesophageal smooth muscle. 243

DASHWOOD M. *see* BAGNALL J., DASHWOOD M. & HUGHES T.G. Automatic quantification of autoradiographically localized receptors using the Leitz MPV Compact Photometer system. (D) 15*P*

DASHWOOD M.R., LUCK P., SEVER P.S. & WAKELING A. Increased platelet α-receptor densities in the cachectic phase of anorexia nervosa. 50*P*

DAVIES C.T.M. & YOUNG K. Effects of training at 30% and 100% maximal isometric force (MVC) on the contractile properties of the triceps surae in man. 22*P*

DAWSON M. Joan & WRAY Susan ^{31}P Nuclear magnetic resonance (NMR) studies of isolated rat uterus. 19*P*

DAY B.L. & ROTHWELL J.C. Estimation of the central delay in the reciprocal Ia inhibitory pathway of the human forearm. 32*P*

DE VALOIS KAREN K. & TOOTELL ROGER B.H. Spatial-frequency-specific inhibition in cat striate cortex cells. 359

DEBNAM E.S. & THOMPSON C.S. An *in vivo* preparation for the measurement of the potential difference across the brush border of rat small intestine. (D) 6*P*

DERKACH V.A., SELYANKO A.A. & SKOK V.I. Acetylcholine-induced current fluctuations and fast excitatory post-synaptic currents in rabbit sympathetic neurones. 511

DOCHERTY R.J., DOLLY J.O., HALLIWELL J.V. & OTHMAN I. Excitatory effects of dendrotoxin in the hippocampus *in vitro*. 58*P*

DOLLY J.O., GWILT M., MEHRABAN F. & WRAY D. Action on end-plate channels of antibodies against pure acetylcholine receptors from cat muscle. 56*P*

DOLLY J.O. *see* DOCHERTY R.J., DOLLY J.O., HALLIWELL J.V. & OTHMAN I. Excitatory effects of dendrotoxin in the hippocampus *in vitro*. 58*P*

DONALDSON R.M., NASHAT F.S., NOBLE D. & TAGGART P. The effect of ischaemia on the paced evoked response and monophasic action potentials in the dog. 65*P*

DONOGHUE S. *see* BRADLEY AMANDA A., DONOGHUE S., GILBEY M.P., JORDAN D. & SPYER K.M. Intracellular studies on afferent transmission through the nucleus tractus solitarius of the cat. (D) 4*P*

DONOGHUE S. Some uses for a SLAM minicomputer system in the neurophysiological laboratory. (D) 7*P*

DONOGHUE S., JORDAN D. & SPYER K.M. The use of antidromic activation to trace afferent projections in cat and rabbit. (D) 8*P*

DUCOURET P., POINDESSAULT J.-P. & SCAMPS F. Antidysrhythmic agents and frog heart fast initial current: dose–response curves. 68*P*

DYBALL R.E.J. *see* BARNES P.R.J. & DYBALL R.E.J. The mouse hypothalamo-neurohypophysial system: an alternative model for the study of neurosecretion. (D) 16*P*

EDWARDS A.D., JENNINGS S.J., NEWSTEAD C.G. & WOLFF C.B. Lung volume and expiratory rate of rise of alveolar CO_2 tension in man. 17*P*

EISNER D.A. *see* ALLEN D.G., EISNER D.A., LAB M.J. & ORCHARD C.H. Oscillations of intracellular $[Ca^{2+}]$ in ferret ventricular muscle. 64*P*

ELLIS D. & MACLEOD K.T. The dependence of intracellular pH regulation on extracellular Na in sheep heart Purkinje fibres. 69*P*

EMERY T.M., MCNUFF Susan, SAUNDERS M. & SOPWITH T. Oxygen utilization in explosive and endurance athletes. 23*P*

FELDMAN J.D. & KEATING M.J. Intertectal neuronal plasticity in *Xenopus laevis*: examination of the developmental critical period during which such plasticity is possible. 29*P*

FILLENZ M. & RYAN E.N. The role of calcium in the regulation of catecholamine synthesis in striatal and hippocampal neurones in the rat. 57*P*

FINDLAY I. & PETERSEN O.H. The extent of dye-coupling between exocrine acinar cells of mouse pancreas. 47*P*

FINK R., HASE Sigrid, LÜTTGAU H. Ch. & WETTWER E. The effect of cellular energy reserves and internal calcium ions on the potassium conductance in skeletal muscle of the frog. 211

FRANCIS R.A. *see* AGNEW J.E., CLARKE S.W., FRANCIS R.A., PAVIA D. & SUTTON P.P. Pulmonary deposition and retention of a Tc-99m aerosol suitable for clinical ventilation imaging. (D) 13*P*

FRIEDLANDER M.J., MARTIN K.A.C. & VAHLE-HINZ C. The post-natal development of structure of physiologically identified retinal ganglion cell (r.g.c.) axons in the kitten. 28*P*

FULLER B.J. *see* ATTENBURROW V.D., FULLER B.J., HOBBS K.E.F., LEWIN J. & WOODS R.J. Metabolic and ultrastructural confirmation of rat hepatocyte proliferation outside the liver. (D) 10*P*

GILBEY M.P. *see* BRADLEY Amanda A., DONOGHUE S., GILBEY M.P., JORDAN D. & SPYER K.M. Intracellular studies on afferent transmission through the nucleus tractus solitarius of the cat. (D) 4*P*

GINESI Laura M., MUNDAY K.A. & NOBLE A.R. Active and inactive renin release by rabbit kidney cortex slices: effect of verapamil, flunarizine and A23187. 80*P*

GINSBURG Simona & RAHAMIMOFF R. The effect of buffered extracellular calcium on evoked transmitter release at the frog neuromuscular junction. 53*P*

GOATCHER A. *see* ALLISON D.J., GOATCHER A., HUGHES J.M.B. & TRIPATHI A. Effect of the respiratory stimulant almitrine on the pulmonary circulation in dogs. 43*P*

GOTTLIEB Sue & LIPPOLD O.C.J. The 4–6 Hz tremor during sustained contraction in normal human subjects. 499

GREEN R. *see* BISHOP J.H.V. & GREEN R. Glucose handling by distal portions of the nephron during pregnancy in the rat. 131

GREENBLATT Richard E. Adapting lights and lowered extracellular free calcium desensitize toad photoreceptors by differing mechanisms. 579

GREENIDGE E. & KEATINGE W.R. Reduced K permeability induced by anoxia in sheep carotid arteries. 70*P*

GREENSTONE M. *see* CLEARY J., GREENSTONE M., LEE S.M., MATHIAS C.J. & TALIADOROS M.D. Is renin release in man mediated by $beta_1$ or $beta_2$ adrenoreceptors? 79*P*

GREENWOOD B., HARDCASTLE J., HARDCASTLE P.T. & READ N.W. The action of secoverine hydrochloride and atropine sulphate on rat intestinal motility and secretion *in vivo*. 34*P*

GREENWOOD J. & PRATT O.E. Inhibition of thiamine transport across the blood–brain barrier in the rat by a chemical analogue of the vitamin. 479

GRIFFITH T.M., HENDERSON A.H. & LEWIS M.J. Studies with isolated epicardial coronary arteries of the rabbit: intimal inhibition of constrictor responses. 71*P*

GWILT M., PRIOR C. & WRAY D. On-line computer analysis of end-plate potential quantal content. (D) 11*P*

GWILT M. *see* DOLLY J.O., GWILT M., MEHRABAN F. & WRAY D. Action on end-plate channels of antibodies against pure acetylcholine receptors from cat muscle. 56*P*

HAGIWARA Susumu & OHMORI Harunori Studies of single calcium channel currents in rat clonal pituitary cells. 649

HALLIWELL J.V. *see* DOCHERTY R.J., DOLLY J.O., HALLIWELL J.V. & OTHMAN I. Excitatory effects of dendrotoxin in the hippocampus *in vitro*. 58*P*

HANSON M.A. & RIDDERSTRÅLE Y. Histological localization of carbonic anhydrase in cat brain. 45*P*

HARBORNE A.J., HUTE J.K. & SMITH M.E. A role for phospholipase C in the control of acetylcholine receptor number in rat skeletal muscle. 73*P*

HARDCASTLE J. *see* GREENWOOD B., HARDCASTLE J., HARDCASTLE P.T. & READ N.W. The action of secoverine hydrochloride and atropine sulphate on rat intestinal motility and secretion *in vivo*. 34*P*

HARDCASTLE P.T. *see* GREENWOOD B., HARDCASTLE J., HARDCASTLE P.T. & READ N.W. The action of secoverine hydrochloride and atropine sulphate on rat intestinal motility and secretion *in vivo*. 34*P*

HASE Sigrid *see* FINK R., HASE Sigrid, LÜTTGAU H. Ch. & WETTWER E. The effect of cellular energy reserves and internal calcium ions on the potassium conductance in skeletal muscle of the frog. 211

HECTOR M.P. *see* ANDERSON D.J. & HECTOR M.P. The effect of anaesthesia of various intra-oral afferents on reflex parotid secretion in man. (D) 15*P*

HELMY-ELKHOLY A. *see* DANIEL E.E., HELMY-ELKHOLY A., JAGER L.P. & KANNAN M.S. Neither a purine nor VIP is the mediator of inhibitory nerves of opossum oesophageal smooth muscle. 243

HENDERSON A.H. *see* GRIFFITH T.M., HENDERSON A.H. & LEWIS M.J. Studies with isolated epicardial coronary arteries of the rabbit: intimal inhibition of constrictor responses. 71*P*

HENDERSON A.J. & PEAKER M. Effects of milking interval and time of day on the rate of milk secretion in goats milked twice or thrice daily. 75*P*

HENLEY J.M. Does the A23187-Ca complex have direct effects on membrane permeability in pig and pigeon red cells? 49*P*

HENON Barbara K. & MCAFEE Donald A. The ionic basis of adenosine receptor actions on post-ganglionic neurones in the rat. 607

HOBBS K.E.F. *see* ATTENBURROW V.D., FULLER B.J., HOBBS K.E.F., LEWIN J. & WOODS R.J. Metabolic and ultrastructural confirmation of rat hepatocyte proliferation outside the liver. (D) 10*P*

HOBBS K.E.F., HOWE S. & JACOB G. The effect of freezing on tumour circulation in the rat liver. (D) 10*P*

HOTTA Ken & YAMAMOTO Yoshimichi Ionic mechanisms involved in the strontium-induced spike and plateau in the smooth muscle of rat portal vein. 199

HOWARD C.V. Morphometric evidence for two populations of Purkinje cells in the paravermis of the cerebellum of the rat. 30*P*

HOWE S. *see* HOBBS K.E.F., HOWE S. & JACOB G. The effect of freezing on tumour circulation in the rat liver. (D) 10*P*

HUANG C.L.-H. Experimental analysis of alternative models of charge movement in frog skeletal muscle. 527

HUGHES J.M.B. *see* ALLISON D.J., GOATCHER A., HUGHES J.M.B. & TRIPATHI A. Effect of the respiratory stimulant almitrine on the pulmonary circulation in dogs. 43*P*

HUGHES T.G. *see* BAGNALL J., DASHWOOD M. & HUGHES T.G. Automatic quantification of auto-radiographically localized receptors using the Leitz MPV Compact Photometer system. (D) 15*P*

HUTE J.K. *see* HARBORNE A.J., HUTE J.K. & SMITH M.E. A role for phospholipase C in the control of acetylcholine receptor number in rat skeletal muscle. 73*P*

IDSTRÖM J.P. *see* BYLUND-FELLENIUS A.C., IDSTRÖM J.P., RENNIE M.J. & SCHERSTÉN T. Common effects of insulin, hypoxia and contractile activity on transport of 2-deoxyglucose into perfused rat skeletal muscle. 18*P*

IQBAL Nasreen & WRIGHT G.H. Regulation of rabbit fetal gastric Na transport by cAMP and hormones. 34*P*

JAAKKOLA Ulla-Marjut & TALO Antti Movements of the luminal contents in two different regions of the caput epididymidis of the rat *in vitro*. 453

JACOB G. *see* HOBBS K.E.F., HOWE S. & JACOB G. The effect of freezing on tumour circulation in the rat liver. (D) 10*P*

JAGER L.P. *see* DANIEL E.E., HELMY-ELKHOLY A., JAGER L.P. & KANNAN M.S. Neither a purine nor VIP is the mediator of inhibitory nerves of opossum oesophageal smooth muscle. 243

JENNINGS S.J. *see* EDWARDS A.D., JENNINGS S.J., NEWSTEAD C.G. & WOLFF C.B. Lung volume and expiratory rate of rise of alveolar CO_2 tension in man. 17*P*

JEREMY J.Y. *see* BARRADAS M.A., CRAFT I.L., DANDONA P. & JEREMY J.Y. Does the human placenta produce prostacyclin? 77*P*

JONES P.M. *see* CLARK R.G., JONES P.M. & ROBINSON I.C.A.F. Vasopressin clearance from cerebro-spinal fluid in Brattleboro rats. 81*P*

JORDAN D. *see* BRADLEY Amanda A., DONOGHUE S., GILBEY M.P., JORDAN D. & SPYER K.M. Intracellular studies on afferent transmission through the nucleus tractus solitarius of the cat. (D) 4*P*

JORDAN D. *see* DONOGHUE S., JORDAN D. & SPYER K.M. The use of antidromic activation to trace afferent projections in cat and rabbit. (D) 8*P*

KAMEYAMA Masaki Electrical coupling between ventricular paired cells isolated from guinea-pig heart. 345

KANNAN M.S. *see* DANIEL E.E., HELMY-ELKHOLY A., JAGER L.P. & KANNAN M.S. Neither a purine nor VIP is the mediator of inhibitory nerves of opossum oesophageal smooth muscle. 243

KAPPAGODA C.T., KARIM F. & MACKAY D. Effects of combined carotid chemoreceptor and atrial receptor stimulation on renal blood flow in anaesthetized dogs. 91

KARIM F. *see* KAPPAGODA C.T., KARIM F. & MACKAY D. Effects of combined carotid chemoreceptor and atrial receptor stimulation on renal blood flow in anaesthetized dogs. 91

KAUFMAN Susan & MACKAY Barbara J. Plasma prolactin levels and body fluid deficits in the rat: causal interactions and control of water intake. 73

KEATING M.J. *see* FELDMAN J.D. & KEATING M.J. Intertectal neuronal plasticity in *Xenopus laevis*: examination of the developmental critical period during which such plasticity is possible. 29*P*

KEATINGE W.R. *see* GREENIDGE E. & KEATINGE W.R. Reduced K permeability induced by anoxia in sheep carotid arteries. 70*P*

KEYNES R.D. & KIMURA J.E. Kinetics of activation of the sodium conductance in the squid giant axon. 621

KIMURA J.E. *see* KEYNES R.D. & KIMURA J.E. Kinetics of activation of the sodium conductance in the squid giant axon. 621

KINGSTONE D. *see* BOSS A.M., KINGSTONE D., MARSHALL A.W., MORGAN M.Y. & SHERLOCK S. Ethanol elimination: influence of sex and the menstrual cycle. 76*P*

KIRKWOOD Peter A. & SHATZ Carla J. Development of binocular inputs to dorsal lateral geniculate neurones in the fetal cat. 27*P*

KNIGHT C.H., MALTZ E. & PEAKER M. A simple technique for estimating milk yield in rats and mice. 73*P*

KNIGHT C.H. *see* CALVERT D.T., KNIGHT C.H. & MALTZ E. Consequences of urine recycling to the lactating mouse and her young. 74*P*

LAB M.J. *see* ALLEN D.G., EISNER D.A., LAB M.J. & ORCHARD C.H. Oscillations of intracellular [Ca^{2+}] in ferret ventricular muscle. 64*P*

LANCASTER B. *see* ASHWOOD T.J., LANCASTER B. & WHEAL H.V. Bursting activity in the kainic acid (KA) lesioned rat hippocampus is associated with a reduction in GABA-mediated inhibition. 59*P*

LANG B., NEWSOM-DAVIES J., PRIOR C. & WRAY D. Action of antibodies at motor nerve terminals in the Lambert-Eaton myasthenic syndrome. 55*P*

LARGE J. & TYLER K.R. Changes in capillary distribution in rat fast muscles following nerve crush and re-innervation. 44*P*

LAWES I.N.C. *see* ANDREWS P.L.R. & LAWES I.N.C. An averaging technique applied to the measurement of intragastric pressure in the ferret. (D) 2*P*

LE BARS D., ROBY Agnès & WILLER J.C. Effects of heterotopic thermal stimuli on a nociceptive flexion reflex and the related pain sensation in man. 31*P*

LEE S.M. *see* CLEARY J., GREENSTONE M., LEE S.M., MATHIAS C.J. & TALIADOROS M.D. Is renin release in man mediated by $beta_1$ or $beta_2$ adrenoreceptors? 79*P*

LÉOTY C. & NOIREAUD J. Potassium and caffeine contractures in normal and dystrophic *C57BL* mouse diaphragm muscles. 72*P*

LEVIN R.J. & PHILLIPS J.C. Rat endometrial bioelectric activity *in vivo* and *in vitro*: effects of adrenaline. 465

LEWIN J. *see* ATTENBURROW V.D., FULLER B.J., HOBBS K.E.F., LEWIN J. & WOODS R.J. Metabolic and ultrastructural confirmation of rat hepatocyte proliferation outside the liver. (D) 10*P*

LEWIS M.J. *see* GRIFFITH T.M., HENDERSON A.H. & LEWIS M.J. Studies with isolated epicardial coronary arteries of the rabbit: intimal inhibition of constrictor responses. 71*P*

LIPPOLD O.C.J. *see* GOTTLIEB Sue & LIPPOLD O.C.J. The 4–6 Hz tremor during sustained contraction in normal human subjects. 499

LIVINGSTON A. & MORRIS B. High affinity binding sites for clonidine, an α_2 adrenoceptor agonist, in the neurointermediate lobe of the pituitary in cattle. 51*P*

LOH L. *see* CHAKRABARTI M.K., COBBE S.M., LOH L. & POOLE-WILSON P.A. Measurement of pulmonary venous and arterial pH oscillations in dogs using catheter tip pH electrodes. 61

LOPEZ-VIDRIERO M.T. *see* AGNEW J.E., CLARKE S.W., LOPEZ-VIDRIERO M.T., PAVIA D. & SUTTON P.P. Tracheobronchial clearance in chronic bronchitis. (D) 12*P*

LOPEZ-VIDRIERO M.T. *see* CLARKE S.W. & LOPEZ-VIDRIERO M.T. The effect of a beta 2 agonist on the activity of human bronchial cilia *in vitro*. 40*P*

LOTE C.J., MCVICAR A.J. & THEWLES A. Prostaglandin E_2 excretion, urine flow and papillary osmolality during saline or dextrose infusion in the conscious rat. 39

LUCK P. *see* DASHWOOD M.R., LUCK P., SEVER P.S. & WAKELING A. Increased platelet α-receptor densities in the cachectic phase of anorexia nervosa. 50*P*

LUMBERS Eugenie R. & POTTER Erica K. Inhibition of the vagal component of the baroreceptor-cardioinhibitory reflex by angiotensin II in dogs and sheep. 83

LUNG M.A., WANG J.C.C. & WIDDICOMBE J.G. Nasal vascular and airway resistances in dogs. 39*P*

LÜTTGAU H. Ch. *see* FINK R., HASE Sigrid, LÜTTGAU H. Ch. & WETTWER E. The effect of cellular energy reserves and internal calcium ions on the potassium conductance in skeletal muscle of the frog. 211

MCAFEE Donald A. *see* HENON Barbara K. & MCAFEE Donald A. The ionic basis of adenosine receptor actions on post-ganglionic neurones in the rat. 607

MCBAIN A.E. & WHEAL H.V. Piperidine dicarboxylates prevent desensitization of the glutamate receptor at the crustacean neuromuscular junction (n.m.j.). 53*P*

MCGUIGAN J.A.S. *see* CIGADA C., CORAY A. & MCGUIGAN J.A.S. A multichannel tap with no grease. (D) 1*P*

MCGUIGAN J.A.S. *see* CORAY A. & MCGUIGAN J.A.S. pH_i at rest and during Na withdrawal contractures in ferret ventricle. 66*P*

MACKAY Barbara J. *see* KAUFMAN Susan & MACKAY Barbara J. Plasma prolactin levels and body fluid deficits in the rat: causal interactions and control of water intake. 73

MACKAY D. *see* KAPPAGODA C.T., KARIM F. & MACKAY D. Effects of combined carotid chemoreceptor and atrial receptor stimulation on renal blood flow in anaesthetized dogs. 91

MACLEOD K.T. *see* ELLIS D. & MACLEOD K.T. The dependence of intracellular pH regulation on extracellular Na in sheep heart Purkinje fibres. 69*P*

MCNUFF Susan *see* EMERY T.M., MCNUFF Susan, SAUNDERS M. & SOPWITH T. Oxygen utilization in explosive and endurance athletes. 23*P*

MCVICAR A.J. *see* LOTE C.J., MCVICAR A.J. & THEWLES A. Prostaglandin E_2 excretion, urine flow and papillary osmolality during saline or dextrose infusion in the conscious rat. 39

MALTZ E. *see* KNIGHT C.H., MALTZ E. & PEAKER M. A simple technique for estimating milk yield in rats and mice. 73*P*

MALTZ E. *see* CALVERT D.T., KNIGHT C.H. & MALTZ E. Consequences of urine recycling to the lactating mouse and her young. 74*P*

MARSHALL A.W. *see* BOSS A.M., KINGSTONE D., MARSHALL A.W., MORGAN M.Y. & SHERLOCK S. Ethanol elimination: influence of sex and the menstrual cycle. 76*P*

MARTIN K.A.C. *see* FRIEDLANDER M.J., MARTIN K.A.C. & VAHLE-HINZ C. The post-natal development of structure of physiologically identified retinal ganglion cell (r.g.c.) axons in the kitten. 28*P*

MARTIN R.J. GABA single channel currents from *Ascaris* muscle 36*P*

MARTINEZ-LARRAÑAGA Maria-Rosa *see* AMBACHE N., ANADÓN A., BURKILL Linda, MARTINEZ-LARRAÑAGA Maria-Rosa, SKINNER Susan & SMITH J.A. Further study of active substances in Auerbach's plexus. 54*P*

MASON S.T. *see* ANGEL A. & MASON S.T. Brain noradrenaline and anaesthesia: further evidence for a role of beta-receptors in the rat. 60*P*

MATHIAS C.J. *see* CLEARY J., GREENSTONE M., LEE S.M., MATHIAS C.J. & TALIADOROS M.D. Is renin release in man mediated by $beta_1$ or $beta_2$ adrenoreceptors? 79*P*

MAUGHAN R.J., WATSON Jennifer S. & WEIR J. Strength and cross-sectional area of the knee-extensor muscles in man: effects of strength training. 21*P*

MEDIRATTA N.K. & NICOLL J.A.R. Conduction velocities of cortocospinal axons in the rat studied by recording cortical antidromic responses. 545

MEHRABAN F. *see* DOLLY J.O., GWILT M., MEHRABAN F. & WRAY D. Action on end-plate channels of antibodies against pure acetylcholine receptors from cat muscle. 56*P*

MEI N. *see* CLERC N. & MEI N. Vagal mechanoreceptors located in the lower oesophageal sphincter of the cat. 487

METZGER P. & WEINGART R. Electrical coupling of cell pairs isolated from adult rat hearts. 67*P*

MOORE John W. & WESTERFIELD Monte Action potential propagation and threshold parameters in inhomogeneous regions of squid axons. 285

MOORE John W., STOCKBRIDGE Norman & WESTERFIELD Monte On the site of impulse initiation in a neurone. 301

MORGAN M.Y. *see* BOSS A.M., KINGSTONE D., MARSHALL A.W., MORGAN M.Y. & SHERLOCK S. Ethanol elimination: influence of sex and the menstrual cycle. 76*P*

MORRIS B. *see* LIVINGSTON A. & MORRIS B. High affinity binding sites for clonidine, an α_2 adrenoceptor agonist, in the neurointermediate lobe of the pituitary in cattle. 51*P*

MUNDAY K.A., MZAIL A.H.K. & NOBLE A.R. β-Adrenoceptor mediated secretion of active and inactive renin in conscious sheep. 78*P*

MUNDAY K.A. *see* GINESI Laura M., MUNDAY K.A. & NOBLE A.R. Active and inactive renin release by rabbit kidney cortex slices: effect of verapamil, flunarizine and A23187. 80*P*

MZAIL A.H.K. *see* MUNDAY K.A., MZAIL A.H.K. & NOBLE A.R. β-Adrenoceptor mediated secretion of active and inactive renin in conscious sheep. 78*P*

NAFTALIN R.J. & SMITH P.M. Evidence of two barriers to SO_4^{2-} movement across the serosal border of rabbit ileum. 48*P*

NASHAT F.S. *see* DONALDSON R.M., NASHAT F.S., NOBLE D. & TAGGART P. The effect of ischaemia on the paced evoked response and monophasic action potentials in the dog. 65*P*

NEAL M.J. *see* CUNNINGHAM Jo R. & NEAL M.J. Effect of γ-aminobutyric acid agonists, glycine, taurine and neuropeptides on acetylcholine release from the rabbit retina. 563

NEWSOM-DAVIES J. *see* LANG B., NEWSOM-DAVIES J., PRIOR C. & WRAY D. Action of antibodies at motor nerve terminals in the Lambert-Eaton myasthenic syndrome. 55*P*

NEWSTEAD C.G. *see* EDWARDS A.D., JENNINGS S.J., NEWSTEAD C.G. & WOLFF C.B. Lung volume and expiratory rate of rise of alveolar CO_2 tension in man. 17*P*

NICOLL J.A.R. *see* MEDIRATTA N.K. & NICOLL J.A.R. Conduction velocities of cortocospinal axons in the rat studied by recording cortical antidromic responses. 545

NOBLE A.R. *see* MUNDAY K.A., MZAIL A.H.K. & NOBLE A.R. β-Adrenoceptor mediated secretion of active and inactive renin in conscious sheep. 78*P*

NOBLE A.R. *see* GINESI Laura M., MUNDAY K.A. & NOBLE A.R. Active and inactive renin release by rabbit kidney cortex slices: effect of verapamil, flunarizine and A23187. 80*P*

NOBLE D. *see* DONALDSON R.M., NASHAT F.S., NOBLE D. & TAGGART P. The effect of ischaemia on the paced evoked response and monophasic action potentials in the dog. 65*P*

NOIREAUD J. *see* LÉOTY C. & NOIREAUD J. Potassium and caffeine contractures in normal and dystrophic *C57BL* mouse diaphragm muscles. 72*P*

NYE P.C.G. & POWELL F.L. Bursting arterial chemoreceptors in the Pekin duck. 38*P*

OHMORI Harunori *see* HAGIWARA Susumu & OHMORI Harunori Studies of single calcium channel currents in rat clonal pituitary cells. 649

ORCHARD C.H. *see* ALLEN D.G., EISNER D.A., LAB M.J. & ORCHARD C.H. Oscillations of intracellular $[Ca^{2+}]$ in ferret ventricular muscle. 64*P*

OTHMAN I. *see* DOCHERTY R.J., DOLLY J.O., HALLIWELL J.V. & OTHMAN I. Excitatory effects of dendrotoxin in the hippocampus *in vitro*. 58*P*

PADJEN Ante L. & SMITH Peter A. The role of the electrogenic sodium pump in the glutamate afterhyperpolarization of frog spinal cord. 433

PAPPENHEIMER J.R. Bayliss–Starling Memorial Lecture (1982). Induction of sleep by muramyl peptides. 1

PARISE Per, SUMMERFIELD J.A. & TAYLOR M.E. Localization of a carbohydrate mediated cycloprotein receptor on hepatic sinusoidal cells. (D) (T) 17*P*

PAVIA D. *see* AGNEW J.E., CLARKE S.W., LOPEZ-VIDRIERO M.T., PAVIA D. & SUTTON P.P. Tracheobronchial clearance in chronic bronchitis. (D) 12*P*

PAVIA D. *see* AGNEW J.E., CLARKE S.W., FRANCIS R.A., PAVIA D. & SUTTON P.P. Pulmonary deposition and retention of a Tc-99m aerosol suitable for clinical ventilation imaging. (D) 13*P*

PEAKER M. *see* KNIGHT C.H., MALTZ E. & PEAKER M. A simple technique for estimating milk yield in rats and mice. 73*P*

PEAKER M. *see* HENDERSON A.J. & PEAKER M. Effects of milking interval and time of day on the rate of milk secretion in goats milked twice or thrice daily. 75*P*

PEATFIELD A.C. & RICHARDSON P.S. The stimulation of tracheal mucin output by inert dusts in the cat airway. 41*P*

PETERSEN O.H. *see* FINDLAY I. & PETERSEN O.H. The extent of dye-coupling between exocrine acinar cells of mouse pancreas. 47*P*

PHILLIPS J.C. *see* LEVIN R.J. & PHILLIPS J.C. Rat endometrial bioelectric activity *in vivo* and *in vitro*: effects of adrenaline. 465

POINDESSAULT J.-P. *see* DUCOURET P., POINDESSAULT J.-P. & SCAMPS F. Antidysrhythmic agents and frog heart fast initial current: dose–response curves. 68*P*

POOLE-WILSON P.A. *see* CHAKRABARTI M.K., COBBE S.M., LOH L. & POOLE-WILSON P.A. Measurement of pulmonary venous and arterial pH oscillations in dogs using catheter tip pH electrodes. 61

POTTER Erica K. *see* LUMBERS Eugenie R. & POTTER Erica K. Inhibition of the vagal component of the baroreceptor-cardioinhibitory reflex by angiotensin II in dogs and sheep. 83

POWELL F.L. *see* NYE P.C.G. & POWELL F.L. Bursting arterial chemoreceptors in the Pekin duck. 38*P*

PRATT O.E. *see* GREENWOOD J. & PRATT O.E. Inhibition of thiamine transport across the blood–brain barrier in the rat by a chemical analogue of the vitamin. 479

PRIOR C. *see* GWILT M., PRIOR C. & WRAY D. On-line computer analysis of end-plate potential quantal content. (D) 11*P*

PRIOR C. *see* LANG B., NEWSOM-DAVIES J., PRIOR C. & WRAY D. Action of antibodies at motor nerve terminals in the Lambert-Eaton myasthenic syndrome. 55*P*

RAHAMIMOFF R. *see* GINSBURG Simona & RAHAMIMOFF R. The effect of buffered extracellular calcium on evoked transmitter release at the frog neuromuscular junction. 53*P*

READ N.W. *see* GREENWOOD B., HARDCASTLE J., HARDCASTLE P.T. & READ N.W. The action of secoverine hydrochloride and atropine sulphate on rat intestinal motility and secretion *in vivo*. 34*P*

RENNIE M.J. *see* BYLUND-FELLENIUS A.C., IDSTRÖM J.P., RENNIE M.J. & SCHERSTÉN T. Common effects of insulin, hypoxia and contractile activity on transport of 2-deoxyglucose into perfused rat skeletal muscle. 18*P*

RICHARDS C.D. *see* BRADLEY D.J. & RICHARDS C.D. Temperature effects on local anaesthetic action and membrane-buffer partition coefficients. (D) 5*P*

RICHARDS C.D. The transverse slice of hippocampus as a bioassay for neuroactive materials. (D) 14*P*

RICHARDS C.D., SNELL C.R. & SNELL P.H. Nicotinamide adenine dinucleotide (NAD) suppresses excitatory synaptic transmission in the dentate gyrus of the guinea-pig. 63*P*

RICHARDSON P.S. *see* PEATFIELD A.C. & RICHARDSON P.S. The stimulation of tracheal mucin output by inert dusts in the cat airway. 41*P*

RIDDERSTRÅLE Y. *see* HANSON M.A. & RIDDERSTRÅLE Y. Histological localization of carbonic anhydrase in cat brain. 45*P*

ROBERTS A. *see* CLARKE J.D.W., ROBERTS A. & SOFFE S.R. Candidate reciprocal inhibitory interneurones in the spinal cord of *Xenopus* embryos. 61*P*

ROBERTS A. *see* DALE N. & ROBERTS A. The effects of excitatory amino acid antagonists on swimming in *Xenopus* embryos. 62*P*

ROBINSON I.C.A.F. *see* CLARK R.G., JONES P.M. & ROBINSON I.C.A.F. Vasopressin clearance from cerebrospinal fluid in Brattleboro rats. 81*P*

ROBY Agnès *see* LE BARS D., ROBY Agnès & WILLER J.C. Effects of heterotopic thermal stimuli on a nociceptive flexion reflex and the related pain sensation in man. 31*P*

ROSENBERG M.E. & SCOTT R.W. A model for teaching the acoustic properties of the cochlea. (D) 2*P*

ROTHWELL J.C. *see* DAY B.L. & ROTHWELL J.C. Estimation of the central delay in the reciprocal Ia inhibitory pathway of the human forearm. 32*P*

RUTISHAUSER Sigrid C.B. Role of the bicarbonate buffer system in the formation of bile by the isolated perfused guinea-pig liver. 46*P*

RYAN E.N. *see* FILLENZ M. & RYAN E.N. The role of calcium in the regulation of catecholamine synthesis in striatal and hippocampal neurones in the rat. 57*P*

SADIG Taha *see* BORISON Herbert L., BORISON Rosaline & SADIG Taha Open-loop comparison of carotid sinus reflex respiratory and circulatory effects in cats. 113

SAITO Yoshitaka & WRIGHT Ernest M. Bicarbonate transport across the frog choroid plexus and its control by cyclic nucleotides. 635

SAUNDERS M. *see* EMERY T.M., MCNUFF Susan, SAUNDERS M. & SOPWITH T. Oxygen utilization in explosive and endurance athletes. 23*P*

SCAMPS F. *see* DUCOURET P., POINDESSAULT J.-P. & SCAMPS F. Antidysrhythmic agents and frog heart fast initial current: dose–response curves. 68*P*

SCHERSTÉN T. *see* BYLUND-FELLENIUS A.C., IDSTRÖM J.P., RENNIE M.J. & SCHERSTÉN T. Common effects of insulin, hypoxia and contractile activity on transport of 2-deoxyglucose into perfused rat skeletal muscle. 18*P*

SCOTT R.W. *see* ROSENBERG M.E. & SCOTT R.W. A model for teaching the acoustic properties of the cochlea. (D) 2*P*

SELIG S.E. *see* ANDERSON W.P., BARTLEY P.J., CASLEY D.J. & SELIG S.E. Comparison of aspirin and indomethacin pre-treatments on the responses to reduced renal artery pressure in conscious dogs. 101

SELYANKO A.A. *see* DERKACH V.A., SELYANKO A.A. & SKOK V.I. Acetylcholine-induced current fluctuations and fast excitatory post-synaptic currents in rabbit sympathetic neurones. 511

SEVER P.S. *see* DASHWOOD M.R., LUCK P., SEVER P.S. & WAKELING A. Increased platelet α-receptor densities in the cachectic phase of anorexia nervosa. 50*P*

SHATZ Carla J. *see* KIRKWOOD Peter A. & SHATZ Carla J. Development of binocular inputs to dorsal lateral geniculate neurones in the fetal cat. 27*P*

SHERLOCK S. *see* BOSS A.M., KINGSTONE D., MARSHALL A.W., MORGAN M.Y. & SHERLOCK S. Ethanol elimination: influence of sex and the menstrual cycle. 76*P*

SINCLAIR J.D. *see* BARTLETT D., ST. JOHN Walter & SINCLAIR J.D. Respiration in rats with chronic lesions in the caudal region of the nucleus of the tractus solitarius. 37*P*

SKINNER Susan *see* AMBACHE N., ANADÓN A., BURKILL Linda, MARTINEZ-LARRAÑAGA Maria-Rosa, SKINNER Susan & SMITH J.A. Further study of active substances in Auerbach's plexus. 54*P*

SKOK V.I. *see* DERKACH V.A., SELYANKO A.A. & SKOK V.I. Acetylcholine-induced current fluctuations and fast excitatory post-synaptic currents in rabbit sympathetic neurones. 511

SMITH Dean O. Extracellular potassium levels and axon excitability during repetitive action potentials in crayfish. 143

SMITH J.A. *see* AMBACHE N., ANADÓN A., BURKILL Linda, MARTINEZ-LARRAÑAGA Maria-Rosa, SKINNER Susan & SMITH J.A. Further study of active substances in Auerbach's plexus. 54*P*

SMITH M.E. *see* HARBORNE A.J., HUTE J.K. & SMITH M.E. A role for phospholipase C in the control of acetylcholine receptor number in rat skeletal muscle. 73*P*

SMITH P.M. *see* NAFTALIN R.J. & SMITH P.M. Evidence of two barriers to SO_4^{2-} movement across the serosal border of rabbit ileum. 48*P*

SMITH Peter A. *see* PADJEN Ante L. & SMITH Peter A. The role of the electrogenic sodium pump in the glutamate afterhyperpolarization of frog spinal cord. 433

SNELL C.R. *see* RICHARDS C.D., SNELL C.R. & SNELL P.H. Nicotinamide adenine dinucleotide (NAD) suppresses excitatory synaptic transmission in the dentate gyrus of the guinea-pig. 63*P*

SNELL P.H. *see* RICHARDS C.D., SNELL C.R. & SNELL P.H. Nicotinamide adenine dinucleotide (NAD) suppresses excitatory synaptic transmission in the dentate gyrus of the guinea-pig. 63*P*

SOFFE S.R. *see* CLARKE J.D.W., ROBERTS A. & SOFFE S.R. Candidate reciprocal inhibitory interneurones in the spinal cord of *Xenopus* embryos. 61*P*

SOPWITH T. *see* EMERY T.M., MCNUFF Susan, SAUNDERS M. & SOPWITH T. Oxygen utilization in explosive and endurance athletes. 23*P*

SPYER K.M. *see* BRADLEY Amanda A., DONOGHUE S., GILBEY M.P., JORDAN D. & SPYER K.M. Intracellular studies on afferent transmission through the nucleus tractus solitarius of the cat. (D) 4*P*

SPYER K.M. *see* DONOGHUE S., JORDAN D. & SPYER K.M. The use of antidromic activation to trace afferent projections in cat and rabbit. (D) 8*P*

ST. JOHN Walter *see* BARTLETT D., ST. JOHN Walter & SINCLAIR J.D. Respiration in rats with chronic lesions in the caudal region of the nucleus of the tractus solitarius. 37*P*

STACEY T.E. *see* BOYD R.D.H., CANNING Jane F., STACEY T.E., WARD R.H.T. & WEEDON A.P. Volumes of distribution of sodium and albumin in the sheep placenta. 13

STANFIELD P.R. *see* ALMERS W., STANFIELD P.R. & STÜHMER W. Lateral distribution of sodium and potassium channels in frog skeletal muscle: measurements with a patch-clamp technique. 261

STEINBACH Joe Henry *see* BEVAN Stuart & STEINBACH Joe Henry Denervation increases the degradation rate of acetylcholine receptors at end-plates *in vivo* and *in vitro*. 159

STOCKBRIDGE Norman *see* MOORE John W., STOCKBRIDGE Norman & WESTERFIELD Monte On the site of impulse initiation in a neurone. 301

STÜHMER W. *see* ALMERS W., STANFIELD P.R. & STÜHMER W. Lateral distribution of sodium and potassium channels in frog skeletal muscle: measurements with a patch-clamp technique. 261

SUMMERFIELD J.A. *see* PARISE Per, SUMMERFIELD J.A. & TAYLOR M.E. Localization of a carbohydrate mediated cycloprotein receptor on hepatic sinusoidal cells. (D) (T) 17*P*

SUTTON P.P. *see* AGNEW J.E., CLARKE S.W., LOPEZ-VIDRIERO M.T., PAVIA D. & SUTTON P.P. Tracheobronchial clearance in chronic bronchitis. (D) 12*P*

SUTTON P.P. *see* AGNEW J.E., CLARKE S.W., FRANCIS R.A., PAVIA D. & SUTTON P.P. Pulmonary deposition and retention of a Tc-99m aerosol suitable for clinical ventilation imaging. (D) 13*P*

SUZUKI Hikaru An electrophysiological study of excitatory neuromuscular transmission in the guinea-pig main pulmonary artery. 47

TAGGART P. *see* DONALDSON R.M., NASHAT F.S., NOBLE D. & TAGGART P. The effect of ischaemia on the paced evoked response and monophasic action potentials in the dog. 65*P*

TALIADOROS M.D. *see* CLEARY J., GREENSTONE M., LEE S.M., MATHIAS C.J. & TALIADOROS M.D. Is renin release in man mediated by $beta_1$ or $beta_2$ adrenoreceptors? 79*P*

TALO Antti *see* JAAKKOLA Ulla-Marjut & TALO Antti Movements of the luminal contents in two different regions of the caput epididymidis of the rat *in vitro*. 453

TAYLOR M.E. *see* PARISE Per, SUMMERFIELD J.A. & TAYLOR M.E. Localization of a carbohydrate mediated cycloprotein receptor on hepatic sinusoidal cells. (D) (T) 17*P*

TERRY C.S. & TREGEAR R.T. Relaxation of insect flight muscle in the absence of ATP. 35*P*

THEWLES A. *see* LOTE C.J., MCVICAR A.J. & THEWLES A. Prostaglandin E_2 excretion, urine flow and papillary osmolality during saline or dextrose infusion in the conscious rat. 39

THOMPSON C.S. *see* DEBNAM E.S. & THOMPSON C.S. An *in vivo* preparation for the measurement of the potential difference across the brush border of rat small intestine. (D) 6*P*

THOMSON Alex M. Long interspike intervals of supraoptic neurones are dependent on extracellular calcium in slices of rat brain. 52*P*

TOOTELL Roger B.H. *see* DE VALOIS Karen K. & TOOTELL Roger B.H. Spatial-frequency-specific inhibition in cat striate cortex cells. 359

TREGEAR R.T. *see* TERRY C.S. & TREGEAR R.T. Relaxation of insect flight muscle in the absence of ATP. 35*P*

TRIPATHI A. *see* ALLISON D.J., GOATCHER A., HUGHES J.M.B. & TRIPATHI A. Effect of the respiratory stimulant almitrine on the pulmonary circulation in dogs. 43*P*

TURNER S.A. The action of ionophoretically applied catecholamines on neurones within the dorsomedial medulla of the rabbit. (D) 9*P*

TYLER K.R. *see* LARGE J. & TYLER K.R. Changes in capillary distribution in rat fast muscles following nerve crush and re-innervation. 44*P*

VAHLE-HINZ C. *see* FRIEDLANDER M.J., MARTIN K.A.C. & VAHLE-HINZ C. The post-natal development of structure of physiologically identified retinal ganglion cell (r.g.c.) axons in the kitten. 28*P*

VAN DER KLOOT W. *see* COHEN I.S. & VAN DER KLOOT W. Effects of low temperature and terminal membrane potential on quantal size at frog neuromuscular junction. 335

WACH Richard A. *see* BARER Gwenda R., BEE Denise & WACH Richard A. Contribution of polycythaemia to pulmonary hypertension in simulated high altitude in rats. 27

WAKELING A. *see* DASHWOOD M.R., LUCK P., SEVER P.S. & WAKELING A. Increased platelet α-receptor densities in the cachectic phase of anorexia nervosa. 50*P*

WALKER R.H. *see* ARBUTHNOTT G.W., WALKER R.H., WHALE D. & WRIGHT A.K. Further evidence for a pallido-striatal pathway in rat brain. 33*P*

WANG J.C.C. *see* LUNG M.A., WANG J.C.C. & WIDDICOMBE J.G. Nasal vascular and airway resistances in dogs. 39*P*

WARD R.H.T. *see* BOYD R.D.H., CANNING Jane F., STACEY T.E., WARD R.H.T. & WEEDON A.P. Volumes of distribution of sodium and albumin in the sheep placenta. 13

WATSON Jennifer S. *see* MAUGHAN R.J., WATSON Jennifer S. & WEIR J. Strength and cross-sectional area of the knee-extensor muscles in man: effects of strength training. 21*P*

WEALE R.A. On the post-mortem optical power and transparency of human crystalline lenses. 25*P*

WEEDON A.P. *see* BOYD R.D.H., CANNING Jane F., STACEY T.E., WARD R.H.T. & WEEDON A.P. Volumes of distribution of sodium and albumin in the sheep placenta. 13

WEINGART R. *see* METZGER P. & WEINGART R. Electrical coupling of cell pairs isolated from adult rat hearts. 67*P*

WEIR J. *see* MAUGHAN R.J., WATSON Jennifer S. & WEIR J. Strength and cross-sectional area of the knee-extensor muscles in man: effects of strength training. 21*P*

WERBLIN F.S. *see* ATTWELL D., WERBLIN F.S. & WILSON M. The effect of caesium on the electrical properties of rods from the tiger salamander retina. 25*P*

WERBLIN Frank S. *see* ATTWELL David, WERBLIN Frank S., WILSON Martin & WU Samuel M. A sign-reversing pathway from rods to double and single cones in the retina of the tiger salamander. 313

WESTERFIELD Monte *see* MOORE John W. & WESTERFIELD Monte Action potential propagation and threshold parameters in inhomogeneous regions of squid axons. 285

WESTERFIELD Monte *see* MOORE John W., STOCKBRIDGE Norman & WESTERFIELD Monte On the site of impulse initiation in a neurone. 301

WETTWER E. *see* FINK R., HASE Sigrid, LÜTTGAU H. Ch. & WETTWER E. The effect of cellular energy reserves and internal calcium ions on the potassium conductance in skeletal muscle of the frog. 211

WHALE D. *see* ARBUTHNOTT G.W., WALKER R.H., WHALE D. & WRIGHT A.K. Further evidence for a pallido-striatal pathway in rat brain. 33*P*

WHEAL H.V. *see* MCBAIN A.E. & WHEAL H.V. Piperidine dicarboxylates prevent desensitization of the glutamate receptor at the crustacean neuromuscular junction (n.m.j.). 53*P*

WHEAL H.V. *see* ASHWOOD T.J., LANCASTER B. & WHEAL H.V. Bursting activity in the kainic acid (KA) lesioned rat hippocampus is associated with a reduction in GABA-mediated inhibition. 59*P*

WHITELAW A.G.L. & WRIGHT B.M. A pneumatic applanimeter for intracranial pressure measurements. (D) 3*P*

WIDDICOMBE J.G. *see* LUNG M.A., WANG J.C.C. & WIDDICOMBE J.G. Nasal vascular and airway resistances in dogs. 39*P*

WILLER J.C. *see* LE BARS D., ROBY Agnès & WILLER J.C. Effects of heterotopic thermal stimuli on a nociceptive flexion reflex and the related pain sensation in man. 31*P*

WILSON M. *see* ATTWELL D., WERBLIN F.S. & WILSON M. The effect of caesium on the electrical properties of rods from the tiger salamander retina. 25*P*

WILSON Martin *see* ATTWELL David, WERBLIN Frank S., WILSON Martin & WU Samuel M. A sign-reversing pathway from rods to double and single cones in the retina of the tiger salamander. 313

WOLFF C.B. *see* EDWARDS A.D., JENNINGS S.J., NEWSTEAD C.G. & WOLFF C.B. Lung volume and expiratory rate of rise of alveolar CO_2 tension in man. 17*P*

WOODS R.J. *see* ATTENBURROW V.D., FULLER B.J., HOBBS K.E.F., LEWIN J. & WOODS R.J. Metabolic and ultrastructural confirmation of rat hepatocyte proliferation outside the liver. (D) 10*P*

WRAY D. *see* GWILT M., PRIOR C. & WRAY D. On-line computer analysis of end-plate potential quantal content. (D) 11*P*

WRAY D. *see* LANG B., NEWSOM-DAVIES J., PRIOR C. & WRAY D. Action of antibodies at motor nerve terminals in the Lambert-Eaton myasthenic syndrome. 55*P*

WRAY D. *see* DOLLY J.O., GWILT M., MEHRABAN F. & WRAY D. Action on end-plate channels of antibodies against pure acetylcholine receptors from cat muscle. 56*P*

WRAY Susan *see* DAWSON M. Joan & WRAY Susan ^{31}P Nuclear magnetic resonance (NMR) studies of isolated rat uterus. 19*P*

WRIGHT A.K. *see* ARBUTHNOTT G.W., WALKER R.H., WHALE D. & WRIGHT A.K. Further evidence for a pallido-striatal pathway in rat brain. 33*P*

WRIGHT B.M. *see* WHITELAW A.G.L. & WRIGHT B.M. A pneumatic applanimeter for intracranial pressure measurements. (D) 3*P*

WRIGHT Ernest M. *see* SAITO Yoshitaka & WRIGHT Ernest M. Bicarbonate transport across the frog choroid plexus and its control by cyclic nucleotides. 635

WRIGHT G.H. *see* IQBAL Nasreen & WRIGHT G.H. Regulation of rabbit fetal gastric Na transport by cAMP and hormones. 34*P*

WU Samuel M. *see* ATTWELL David, WERBLIN Frank S., WILSON Martin & WU Samuel M. A sign-reversing pathway from rods to double and single cones in the retina of the tiger salamander. 313

YAMAMOTO Yoshimichi *see* HOTTA Ken & YAMAMOTO Yoshimichi Ionic mechanisms involved in the strontium-induced spike and plateau in the smooth muscle of rat portal vein. 199

YOUNG K. *see* DAVIES C.T.M. & YOUNG K. Effects of training at 30% and 100% maximal isometric force (MVC) on the contractile properties of the triceps surae in man. 22*P*

ZEKI S. Binocular cells of monkey striate cortex that receive conflicting information from the two eyes. 26*P*